MSDS : Thiazole, 2-amino-5-nitro-

CAS : 121-66-4

SYNONYMS :

* Aminonitrothiazole
* 2-Amino-5-nitrothiazole
* Aminonitrothiazolum
* Aminzol soluble
* Enheptin
* Enheptin premix
* Enheptin-T
* Entramin
* NCI-C03065
* Nitramin IDO
* 5-Nitro-2-aminothiazole
* 5-Nitro-2-thiazolamine
* 5-Nitro-2-thiazolylamine
* 2-Thiazolamine, 5-nitro-
* USAF EK-6561

*** CHEMICAL IDENTIFICATION ***

RTECS NUMBER : XJ2800000
CHEMICAL NAME : Thiazole, 2-amino-5-nitro-
CAS REGISTRY NUMBER : 121-66-4
BEILSTEIN REFERENCE NO. : 0126797
REFERENCE : 4-27-00-04675 (Beilstein Handbook Reference)
LAST UPDATED : 199710
DATA ITEMS CITED : 24
MOLECULAR FORMULA : C3-H3-N3-O2-S
MOLECULAR WEIGHT : 145.15
WISWESSER LINE NOTATION : T5N CSJ BZ DNW
COMPOUND DESCRIPTOR : Tumorigen
Drug
Mutagen
Reproductive Effector

SYNONYMS/TRADE NAMES :

* Aminonitrothiazole
* 2-Amino-5-nitrothiazole
* Aminonitrothiazolum
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* 2-Thiazolamine, 5-nitro-
* USAF EK-6561

*** HEALTH HAZARD DATA ***

** ACUTE TOXICITY DATA **

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 200 mg/kg
TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.

Volume(issue)/page/year: AD277-689

** TUMORIGENIC DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 28 gm/kg/2Y-C
TOXIC EFFECTS :
Tumorigenic - Carcinogenic by RTECS criteria
Blood - leukemia
Blood - lymphoma, including Hodgkin's disease
REFERENCE :
NCITR* National Cancer Institute Carcinogenesis Technical Report Series. (Bethesda, MD) No.0-205. For publisher information, see NTPTR*.
Volume(issue)/page/year: NCI-TR-53,1978

TYPE OF TEST : TD - Toxic dose (other than lowest)
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 23 gm/kg/46W-C
TOXIC EFFECTS :
Tumorigenic - neoplastic by RTECS criteria
Kidney, Ureter, Bladder - Kidney tumors
Skin and Appendages - tumors
REFERENCE :
JNCIAM Journal of the National Cancer Institute. (Washington, DC) V.1-60, 1940-78. For publisher information, see JJIND8. Volume(issue)/page/year: 54,841,1975

TYPE OF TEST : TD - Toxic dose (other than lowest)
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 12 gm/kg/2Y-C
TOXIC EFFECTS :
Tumorigenic - equivocal tumorigenic agent by RTECS criteria
Reproductive - Tumorigenic effects - uterine tumors
REFERENCE :
NCITR* National Cancer Institute Carcinogenesis Technical Report Series. (Bethesda, MD) No.0-205. For publisher information, see NTPTR*.
Volume(issue)/page/year: NCI-TR-53,1978

** REPRODUCTIVE DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE : 600 mg/kg
SEX/DURATION : male 10 day(s) pre-mating
TOXIC EFFECTS :
Reproductive - Paternal Effects - prostate, seminal vesicle, Cowper's gland, accessory glands
REFERENCE :
TXAPA9 Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959- Volume(issue)/page/year: 2,418,1960

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE : 700 mg/kg
SEX/DURATION : male 14 day(s) pre-mating
TOXIC EFFECTS :
Reproductive - Maternal Effects - menstrual cycle changes or disorders